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INTERNATIONAL PACIFIC HALIBUT COMMISSION

*Appointed under the Convention between Canada and the United States
of America for the Preservation of the Northern Pacific Halibut Fishery*

TECHNICAL REPORT No. 1

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Recruitment Investigations:

Trawl Catch Records

Bering Sea, 1967

by E. A. BEST

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Seattle, Washington, 1969

FOREWORD

The present report is the first of a new series to be designated as Technical Reports. This series will include subject matter of general interest such as data reports of field investigations, preliminary analyses of research findings and studies on techniques and methodology.

The series of annual and scientific reports will be continued.

INTERNATIONAL PACIFIC HALIBUT COMMISSION

Recruitment Investigations: Trawl Catch Records in Bering Sea, 1967

E. A. Best

Introduction

To measure changes in the abundance and in the distribution of young or juvenile halibut in the northeastern Pacific Ocean and eastern Bering Sea the International Pacific Halibut Commission has conducted annual surveys extending over an area of approximately 165,000 square miles of continental shelf in the Bering Sea and Gulf of Alaska. These annual surveys continue on a sample basis the initial intensive assessment of the region conducted by the Commission at the request of Canada and the United States from May 1961 to April 1963 (IPHC, 1964). That initial survey provided indices of the availability of young or juvenile halibut on the continental shelf of the Gulf of Alaska prior to any substantial development of a foreign trawl fishery in the region.

The 1961-1963 survey between Cape Spencer and Unimak Pass was the most extensive ever conducted of its type. It demonstrated that young halibut were found over the entire continental shelf at all seasons of the year; their densities were usually greater within the 50-fathom contour; and young halibut were particularly vulnerable to capture by bottom trawl gear.

The annual assessments are being continued at a large number of representative stations established during the original comprehensive surveys of 1961 to 1963 and using comparable trawl net gear. They are being conducted on a large enough scale that should permit distinguishing what may be natural fluctuations in year class strengths from changes resulting from increased mortality from the increased trawl fishing. The findings also provide a basis for predicting the size of the year classes of halibut several years prior to their entry as adults in the North American setline halibut fishery.

In the summer of 1963 a similar survey was conducted by the Halibut Commission in eastern Bering Sea. This survey had been preceded by several years of intensive trawl fishing by Japan and the U.S.S.R. in this region. Since 1965 such surveys in Bering Sea have been on an annual basis. This report covers the catch records for the 1967 survey.

The 1967 Survey in Bering Sea

The commercial otter-trawl vessel HARMONY was chartered for a period of 109 days from May 15 through August 31 to conduct the 1967

surveys in the eastern Bering Sea and western Gulf of Alaska. This report has been restricted to the activities of the vessel in Bering Sea only.

The HARMONY is 71 feet in overall length, 90 gross tons, and is powered by a 365-horsepower diesel engine. The crew complement of the vessel consisted of the captain, one fisherman, one cook-fisherman and two members of the scientific staff of the Commission. The United States Bureau of Commercial Fisheries placed an observer aboard for the entire charter period to assess the king crab catch and to tag adult male king crab (Kirkwood and Hebard, 1969).

The 400-mesh eastern type otter trawl nets with codends of 3.5 inch (89 mm.) mesh used were identical to those used on the earlier trawl survey by the Halibut Commission (IPHC, 1964). The stations occupied in 1967 had been fished by the Commission in other years. A standard haul of 60 minutes was calculated from the time the brake on the trawl winch was set until retrieval of the trawl warp began. Catches of hauls of shorter or longer duration were standardized to the 60-minute basis (Appendix Table 1).

The total catch by species is summarized in Table 1 for the 124 hauls that were sorted according to species. A detailed account of the catches by individual hauls is given in Appendix Table 1.

Table 1. Summary of total catch of 124 hauls sorted for species composition in Bering Sea, 1967

Species	Pounds	Percent of Catch
Yellowfin sole	86,500	33
Walleye pollock	30,000	12
Tanner crab	29,300	12
King crab	27,200	11
Rock sole	21,200	8
Pacific cod	18,900	7
Sculpins (cottidae)	16,100	6
Alaska plaice	10,900	4
Flathead sole	4,500	2
Arrowtooth flounder	3,900	1
All other species	9,000	3
Pacific halibut	3,600	1 (1.4)
Total	261,100	100

The above proportions of the various species or groups of species should not be regarded as being representative of the catch of the trawl fisheries in the region. While halibut represented 1.4 percent of the total catch of all organisms it was about 2.0 percent of the marketable species of fish.

Fishing Areas

The portion of Bering Sea surveyed in 1967 was divided into two sections by a line drawn from Cape Newenham to St. Paul Island. That section to the south of the line will be referred to as the Southeastern flats and that to the north the Northeastern flats.

Operations on Cruise I on the Southeastern flats commenced at stations in Bristol Bay and proceeded west along the north side of the Alaska Peninsula during the period May 31 through June 12 (Haul Nos. 1-48). The second phase, Cruise II between June 17 and 28, was to determine the extent and density of the distribution of young halibut in the vicinity of Nunivak Island (Haul Nos. 49-86). Cruise III from July 1 to 14 reoccupied the stations in southeastern Bering Sea which had been fished during Cruise I to determine the extent of any short-term summer movement of halibut concentrations within southeastern Bering Sea (Haul Nos. 87-134). Cruise IV, July 20 to 29, was to define the northern limits of the distribution of young halibut on the Northeastern flats for the environmental conditions that existed in 1967 (Haul Nos. 135-159). Juvenile halibut were found along the Alaskan mainland coast as far north as 62° 30' N., but none were taken at offshore stations in the vicinity of St. Lawrence Island.

Table 2. Summary of general fishing locations in Bering Sea

Cruise No.	Date	Location	Haul Nos.
Cruise I	May 31-June 12	Southeastern flats	1-48
Cruise II	June 17-June 28	Northeastern flats	49-86
Cruise III	July 1-July 14	Southeastern flats	87-134
Cruise IV	July 20-July 29	Northeastern flats	135-159

Methods

All halibut were sorted from the catch as soon as brought on deck and were placed in a live tank with running seawater. A sample of the remaining catch was then drawn to determine the relative weight of the various species of fish and other important faunal items present. A visual estimate of the total weight of the catch was made by the captain, who was experienced in such matters.

Otolith samples consisting of the left- or white-side otolith from three halibut in each centimeter size group through 64 cm., were collected on each cruise to provide information on the age composition of the juvenile halibut on each ground. In addition, the sex of each of these fish was determined to establish the growth rate for each sex.

On completing sampling of the catch for age materials the viable halibut in the live tank were tagged. Individuals less than 65 cm. in total length were tagged by attaching wire-reinforced, vinyl spaghetti-type tags around the pre-opercular bone; fish between 65 and 80 cm. were double tagged with the spaghetti tag and the regular IPHC metal strap tag inserted through the opercular bone near the upper angle of the gill opening; and fish over 80 cm. were tagged with the regular IPHC metal strap tag only. All tags were placed on the upper or dark side of the fish. All tags released in the Bering Sea in 1967 have been designated as Tag Experiment No. 414. The length frequency of tagged halibut for the foregoing experiment is given in Tables 3 and 4.

The sample for the determination of species composition was sorted and weighed by species upon completion of the tagging and measuring of the halibut. A haul-by-haul tabulation of this incidental catch is appended to this report. At times the demands of tagging and measuring the halibut precluded the detailed tabulation of the incidental species. Consequently only 124 of the 159 hauls were sorted for species composition. In Appendix Table I these hauls appear as a zero catch which does not necessarily mean no fish were caught but rather that there was not enough time to enumerate species other than halibut.

Two hauls on the Southeastern flats (Nos. 4 and 29) produced larger than expected numbers of small halibut 15 to 20 cm.; consequently two experimental 15-minute hauls (Nos. 5 and 30) were made with the small fish trawl of 1.25-inch mesh (32 mm.). This small mesh did not catch any halibut smaller than those caught by the standard 3.5-inch mesh net so no further hauls were made in the area with this net, and the catches of these two hauls have been included in Table 3.

A series of the replicate hauls (Nos. 110 through 118) was made at Bering Sea station 6-I (58° 15' N., 162° 15' W.) to test the effects of variable length of haul. Two hauls each of one-half, one, one and one-half, and two hours were made for analysis. The sequence of hauling was determined from a table of random numbers.

Bathythermograph casts were made at all stations occupied as well as at those deemed to be unfishable due to weather, bottom topography or having bottom temperatures below the optimum range for halibut.

Catches

The distribution of halibut catches (in number per 60-minute haul) for Cruises I, II, and IV is shown in Figure 1. The catches for Cruise III, which was the second sampling of the stations on the

Southeastern flats, are shown in Figure 2. There is a noticeable decrease in the number per 60-minute haul for the stations near Unimak Island and a corresponding increase in the catch at stations farther eastward in Bristol Bay. This inferred eastward movement of young halibut into Bristol Bay required about one month during the period between early June to early July. It is noted that the catch of 19 halibut at the station off Cape Newenham (Figure 2) is the average of 9 hauls of variable lengths made to ascertain if the catch was proportional to length of haul.

The halibut catches in numbers and weight for the Southeastern and Northeastern flats are summarized in Tables 3 and 4 respectively. These tables also give the length frequencies of both the total halibut catch and tagged halibut as well as the age composition of the halibut below 65 cm. in total length.

A haul-by-haul tabulation of the halibut catch, other fish and shellfish is given in Appendix Table 1. As explained previously all catches have been calculated on the basis of a 60-minute haul, however, the actual time is given in the identification heading for each station. Consequently, on account of the calculated character of some of the hauls, the halibut catch in Appendix Table 1 will not agree with the actual catch of halibut listed in Tables 3 and 4.

In the Appendix Table 1 the halibut catch is tabulated by number and weight for both legal and sublegal sizes. All other fish and shellfish are listed as the weight in pounds per 60-minute haul.

Literature Cited

International Pacific Halibut Commission

- 1964 Catch records of a trawl survey conducted by the International Pacific Halibut Commission between Unimak Pass and Cape Spencer, Alaska from May 1961 to April 1963. Int. Pac. Hal. Comm. Rept. (36): 524 pp., Seattle.

Kirkwood, James B. and James F. Hebard

- 1969 King crab research. In: Investigations by the United States for the International North Pacific Fisheries Commission--1967. Int. No. Pac. Fish. Comm. Annual Rept. 1967: 121-123.

Table 3. Summary of operations - age composition of halibut below 65 cm. in length and length frequencies of all halibut caught and tagged on the Southeastern flats of Bering Sea in 1967.

<u>Operations</u>		<u>Age Composition</u>		
		<u>Year</u> <u>Class</u>	<u>Age</u>	<u>No. Indi-</u> <u>viduals</u>
Number of hauls	96			
Fishing time (hrs.)	87.4			
Depth range (fms.)	11-62	1966	1	0
		1965	2	162
		1964	3	203
		1963	4	638
		1962	5	160
		1961	6	154
		1960	7	15
		1959	8	4
<u>Halibut</u>				
Number less 65 cm.	1,336			
Number more 65 cm.	91			
Weight less 65 cm.	1,442			
Weight more 64 cm.	1,254			
Total weight halibut	2,696	Total		1,336

Halibut Length Frequencies

<u>Cm. Group</u>	<u>Total</u> <u>Catch</u>	<u>Fish</u> <u>Tagged</u>
15-19	54	-
20-24	108	2
25-29	97	33
30-34	341	171
35-39	373	197
40-44	163	89
45-49	95	51
50-54	56	27
55-59	27	11
60-64	22	7
65-69	20	17
70-74	10	9
75-79	15	14
80-84	10	8
85-89	11	9
90-94	12	11
95-99	4	4
100-104	5	5
105-109	2	2
110-114	-	-
115-119	1	1
120-124	-	-
125-129	1	1
Totals	1,427	669

Table 4. Summary of operations - age composition of halibut below 65 cm. in length and length frequencies of all halibut caught and tagged on the Northeastern flats of Bering Sea in 1967.

<u>Operations</u>		<u>Age Composition</u>		
		<u>Year Class</u>	<u>Age</u>	<u>No. Individuals</u>
Number of hauls	63	1966	1	0
Fishing time (hrs.)	54.6	1965	2	0
Depth range (fms.)	9-74	1964	3	26
		1963	4	140
		1962	5	74
		1961	6	122
		1960	7	5
		1959	8	1
		1958	9	1
Total weight halibut	1,485	Total		369

Halibut Length Frequencies

<u>Cm. Group</u>	<u>Total Catch</u>	<u>Fish Tagged</u>
15-19	-	-
20-24	-	-
25-29	3	-
30-34	20	3
35-39	25	4
40-44	101	63
45-49	66	34
50-54	62	24
55-59	58	28
60-64	34	11
65-69	12	11
70-74	5	4
75-79	14	11
80-84	2	2
85-89	5	4
90-94	3	3
95-99	3	-
100-104	-	-
105-109	2	-
110-114	1	-
115-119	-	-
120-124	-	-
125-129	-	-
Totals	416	205

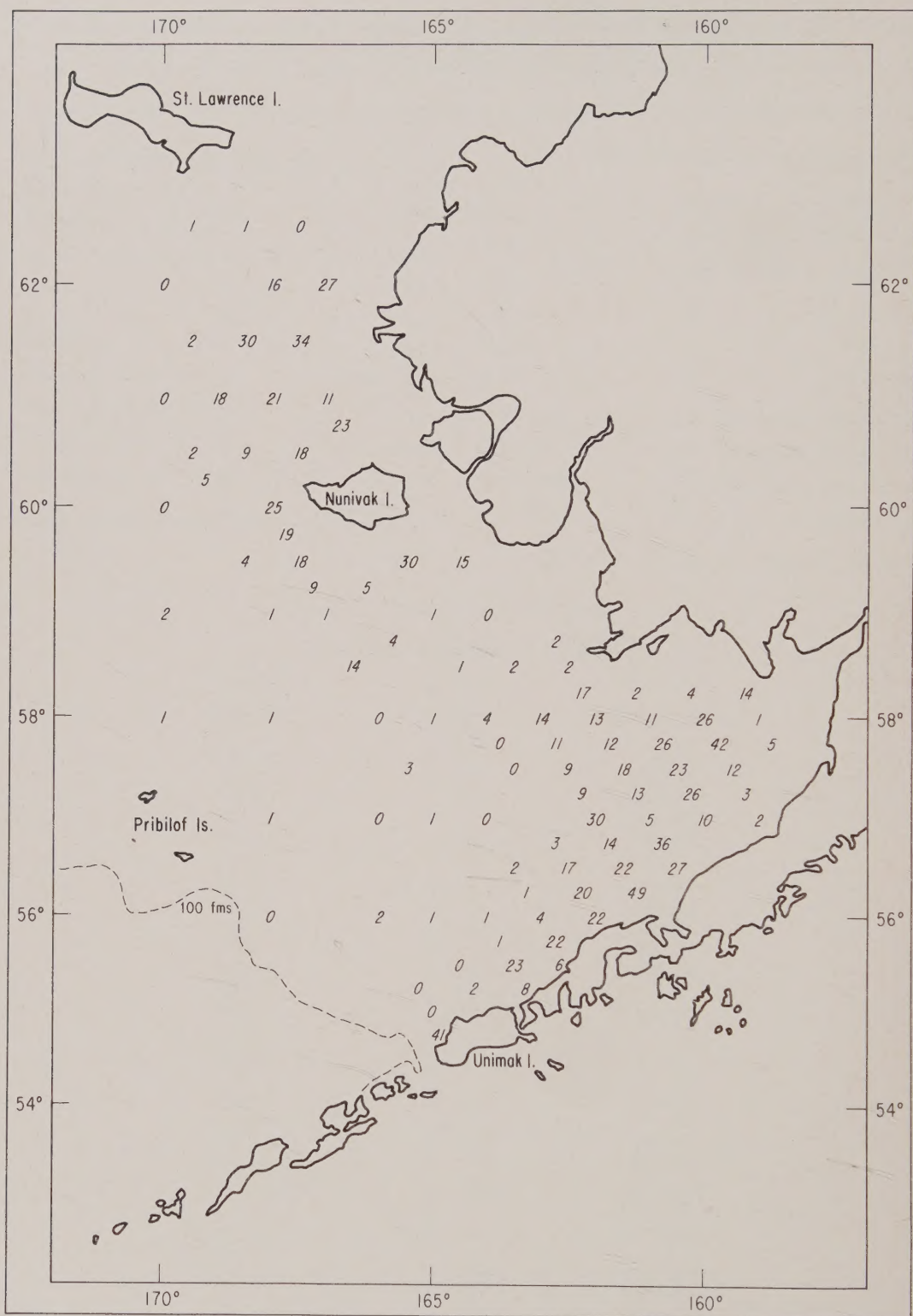


Figure 1. Number of halibut caught per 60-minute haul during Cruises I, II, and IV of the M/V HARMONY, June-July 1967.

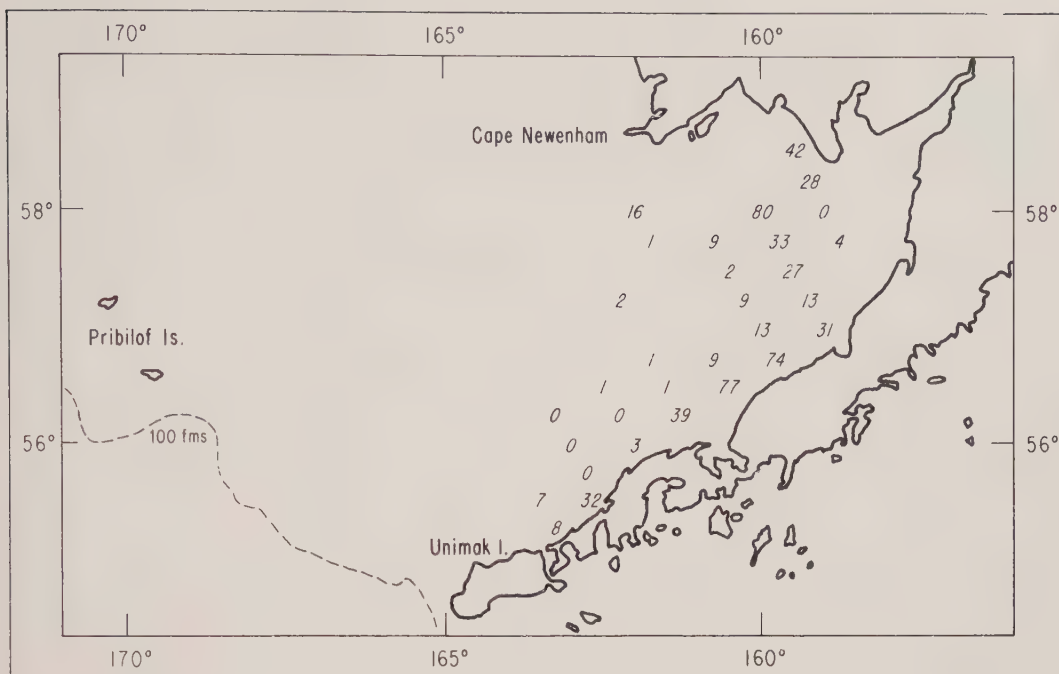


Figure 2. Number of halibut caught per 60-minute haul during Cruise III of the M/V HARMONY, July 1-14, 1967.

APPENDIX TABLE 1

HAUL NO.	= Sequence of hauls beginning with No. 1.
STATION	= Identification of station within pre-determined grid.
MO DA YR	= Date station occupied, 053167 = 31 May 1967.
W. LONG.	= Position of station in degrees and minutes of west long.
N. LAT.	= Position of station in degrees and minutes of north lat.
VESSEL	= Vessel name.
DURATION	= Length of haul in minutes.
DEPTH MAX.	= Maximum depth of haul in fathoms.
NET MESH	= Size of cod-end mesh in inches.
CATCH	= All catch information adjusted to a 60 minute haul.
HALIBUT	= <u>Hippoglossus hippoglossus stenolepis</u> .
NO. LESS 65	= No. halibut less than 65 cm in total length.
NO. GTR 64	= No. halibut greater than 64 cm in total length.
WT. LESS 65	= Weight of halibut less than 65 cm, in pounds.
WT. GTR 64	= Weight of halibut greater than 64 cm, in pounds.
TOTAL WT.	= Total weight of halibut.
SOLE+FLFSH	= Weight, in pounds, of flatfish.
FLATHEAD	= <u>Hippoglossoides elassodon</u> .
ROCK	= <u>Lepidopsetta bilineata</u> .
REX	= <u>Glyptocephalus zachirus</u> .
BUTTER	= <u>Isopsetta isolepis</u> .
YELLOWFIN	= <u>Limanda aspera</u> .
ENGLISH	= <u>Parophrys vetulus</u> .
DOVER	= <u>Microstomus pacificus</u> .
TURBOT	= <u>Atheresthes stomias</u> .
STR FLDR	= <u>Platichthys stellatus</u> .
ALA PLAICE	= <u>Pleuronectes quadrituberculatus</u> .
SAND SOLE	= <u>Psettichthys melanostictus</u> .
PETRALE	= <u>Eopsetta jordani</u> .
MISC FTFSH	= All other flatfish.
TOT. FTFSH	= Total weight, in pounds of all flatfish less halibut.
ROUND FISH	= Weight, in pounds, of other fish except elasmobranchs.
LING COD	= <u>Ophiodon elongatus</u> .
TRUE COD	= <u>Gadus macrocephalus</u> .
BLACK COD	= <u>Anoplopoma fimbria</u> .
POLLACK	= <u>Theragra chalcogrammus</u> .
COTTIDS	= All fishes of the Family Cottidae.
IDIOTS	= <u>Sebastolobus alascanus</u> .
OC. PERCH	= <u>Sebastodes alutus</u> .
ROCKFISH	= <u>Sebastodes species</u>
GRENADIER	= All fishes of the Family Macrouridae.
MISC RDFSH	= All other round fishes caught.
TOT. RDFSH	= Total weight, in pounds, of all round fish.
SHELL FISH	= Weight, in pounds, of shell fish.
KING CRB	= <u>Paralithodes camtschatica</u> .
TANNER CRB	= <u>Chionecetes spp.</u>
DUNGEN CRB	= <u>Cancer magister</u> .
SHRIMP	= All shrimp species.
SCALLOP	= All scallop species.
TOT. SHFSH	= Total weight, in pounds, of all shell fish.
OCPS + SQD	= Weight of octopus and squid.
ELASMOBRCH	= Weight of all sharks, skates and rays.
TOT. CATCH	= Total weight of all fish and shell fish caught.

HAUL NO. STATION	H 1 4B	H 2 4C	H 3 4D	H 4 4E	H 5 4F	H 6 4F	HAUL NO. STATION	H 7 4G	H 8 3F	H 9 3E	H 10 3D	H 11 5B	H 12 5C
MO DA YR	053167	053167	053167	053167	053167	060167	MO DA YR	060167	060167	060167	060267		060267
W. LONG.	159 00	159 15	159 30	159 45	159 45	160 00	W. LONG.	160 00	159 15	159 00	158 47		150 00
N. LAT.	57 00	57 15	57 30	57 45	57 45	58 00	N. LAT.	58 07	58 15	58 00	57 38		57 00
VESSEL	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	VESSEL	HARMNY	HARMNY	HARMNY	HARMNY		HARMNY
DURATION	30	60	60	60	10	60	DURATION	30	60	60	60		60
DEPTH MAX.	13	28	28	27	26	26	DEPTH MAX.	20	16	22	24		35
NET MESH	3 1/2	3 1/2	3 1/2	3 1/2	1 1/4	3 1/2	NET MESH	3 1/2	3 1/2	3 1/2	3 1/2		3 1/2
CATCH							CATCH					N TRWL	
HALIBUT							HALIBUT						
NO. LESS 65.	2.0	3.0	12.0	41.0	78.0	26.0	NO. LESS 65	4.0	13.0	1.0	5.0		10.0
NO. GTR 64	0.	0.	0.	1.0	0.	0.	NO. GTR 64	0.	1.0	0.	0.		0.
WT. LESS 65	0.3	3.6	3.5	11.1	17.7	14.4	WT. LESS 65	0.6	10.5	0.1	0.6		8.5
WT. GTR 64	0.	0.	0.	9.5	0.	0.	WT. GTR 64	0.	16.6	0.	0.		0.
TOTAL WT.	0.3	3.6	3.5	20.6	17.7	14.4	TOTAL WT.	0.6	27.1	0.1	0.6		8.5
SOLE+FLFSH							SOLE+FLFSH						
FLATHEAD	0.	0.	17.0	0.	0.	0.	FLATHEAD	0.	0.	0.	0.		0.
ROCK	5.2	170.0	472.3	663.7	0.	48.0	ROCK	126.0	75.0	16.7	5.0		397.0
REX	0.	0.	0.	0.	0.	0.	REX	0.	0.	0.	0.		0.
BUTTER	0.	0.	0.	0.	0.	0.	BUTTER	0.	0.	0.	0.		0.
YELLOWFIN	31.7	68.0	823.9	1175.5	0.	1119.6	YELLOWFIN	561.0	1119.2	100.0	25.0		45.2
ENGLISH	0.	0.	0.	0.	0.	0.	ENGLISH	0.	0.	0.	0.		0.
DOVER	0.	0.	0.	0.	0.	0.	DOVER	0.	0.	0.	0.		0.
TURBOT	0.	0.	0.	0.	0.	0.	TURBOT	0.	0.	0.	0.		0.
STR FLDR	25.3	0.	16.0	20.8	0.	0.	STR FLDR	8.4	0.	0.	2.0		0.
ALA PLAICE	0.	3.4	29.0	6.5	0.	208.0	ALA PLAICE	34.4	89.3	3.0	2.0		0.
SAND SOLE	0.	0.	0.	0.	0.	0.	SAND SOLE	0.	0.	0.	0.		0.
PETRALE	0.	0.	0.	3.	0.	0.	PETRALE	0.	0.	0.	0.		0.
MISC FTFSH	0.	0.	0.	0.	0.	0.	MISC FTFSH	0.	0.	0.	0.		0.
TOT. FTFSH	62.2	241.4	1358.3	1866.5	0.	1375.6	TOT. FTFSH	729.8	1283.5	119.7	34.0		442.2
ROUND FISH							ROUND FISH						
LING COD	0.	0.	0.	0.	0.	0.	LING COD	0.	0.	0.	0.		0.
TRUE COD	0.	79.9	95.0	123.5	0.	0.	TRUE COD	0.	0.	0.	0.		131.1
BLACK COD	0.	0.	0.	0.	0.	0.	BLACK COD	0.	0.	0.	0.		0.
POLLACK	0.	20.4	0.	0.	0.	0.	POLLACK	0.	0.	0.	0.		102.6
COTTIDS	131.4	597.2	435.0	0.	0.	160.0	COTTIDS	70.0	148.6	25.0	12.0		0.
IDIOTS	0.	0.	0.	0.	0.	0.	IDIOTS	0.	0.	0.	0.		0.
OC. PERCH	0.	0.	0.	0.	0.	0.	OC. PERCH	0.	0.	0.	0.		0.
ROCKFISH	0.	0.	0.	0.	0.	0.	ROCKFISH	0.	0.	0.	0.		0.
GRENADIER	0.	0.	0.	0.	0.	0.	GRENADIER	0.	0.	0.	0.		0.
MISC RDFSH	2.4	10.2	9.7	0.	0.	24.0	MISC RDFSH	17.0	17.8	0.2	0.5		0.
TOT. RDFSH	133.8	707.7	539.7	123.5	0.	184.0	TOT. RDFSH	87.0	166.4	25.2	12.5		233.7
SHELL FISH							SHELL FISH						
KING CRB	6.6	247.5	72.0	54.4	0.	0.	KING CRB	10.8	2.2	0.	12.2		129.5
TANNER CRB	0.	205.5	29.2	0.	0.	0.	TANNER CRB	0.	0.	0.	0.		7016.6
DUNGEN CRB	0.	0.	0.	0.	0.	0.	DUNGEN CRB	0.	0.	0.	0.		0.
SHRIMP	1.2	0.	0.	0.	0.	0.	SHRIMP	0.	0.	0.	0.		0.
SCALLOP	0.	0.	0.	0.	0.	0.	SCALLOP	0.	0.	0.	0.		0.
TOT. SHFSH	7.8	453.0	101.2	54.4	0.	0.	TOT. SHFSH	10.8	2.2	0.	12.2		7146.1
OCPS + SOD	0.	0.	0.	0.	0.	0.	OCPS + SOD	0.	0.	0.	0.		0.
ELASMOBRCH	0.	0.	0.	0.	0.	0.	ELASMOBRCH	0.	0.	0.	0.		0.
TOT. CATCH	204.1	1405.7	2002.7	2065.0	17.7	1574.0	TOT. CATCH	828.2	1479.2	145.0	59.3		7830.4

HAUL NO. STATION	H 13 5D	H 14 5E	H 15 5F	H 16 5G	H 17 5H	H 18 5I	H 19 6K	H 20 6J	H 21 6I	H 22 6H	H 23 6G	H 24 6F
MO DA YR	060367	060367	060367	060467	060467	060467	060467	060467	060567	060567	060567	060567
W. LONG.	160 15	160 30	160 45	161 00	161 00	162 15	162 45	162 30	162 15	162 00	161 45	161 30
N. LAT.	57 15	57 30	57 45	58 00	58 00	58 15	58 45	58 30	58 15	58 00	57 45	57 30
VESSEL	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
DURATION	60	60	60	60	0	0	60	60	60	60	60	60
DEPTH MAX.	34	33	28	26	0	0	17	24	23	22	28	30
NET MESH	3 1/2	3 1/2	3 1/2	3 1/2			3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
CATCH					N TRWL	N TRWL						
HALIBUT												
NO. LESS 65	26.0	21.0	26.0	11.0	0.	0.	2.0	2.0	4.0	13.0	12.0	17.0
NO. GTR 64	0.	2.0	0.	0.	0.	0.	0.	0.	1.0	0.	0.	1.0
WT. LESS 65	25.5	18.6	33.8	8.4	0.	0.	2.2	4.1	9.6	14.0	14.2	16.9
WT. GTR 64	0.	13.9	0.	0.	0.	0.	0.	0.	7.3	0.	0.	9.5
TOTAL WT.	25.5	32.5	33.8	8.4	0.	0.	2.2	4.1	16.8	14.0	14.2	26.4
SOLE+FLFSH												
FLATHEAD	90.4	0.	87.1	0.	0.	0.	0.	0.	0.	0.	8.6	0.
ROCK	604.0	100.0	745.0	339.3	0.	0.	18.4	0.	141.2	2242.9	0.	0.
REX	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BUTTER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
YELLOWFIN	453.0	100.0	2370.6	1583.5	0.	0.	797.0	60.0	104.1	379.7	2806.6	0.
ENGLISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TURBOT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STR FLDR	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ALA PLAICE	241.6	20.0	169.2	112.5	0.	0.	113.8	24.0	42.5	31.5	517.8	0.
SAND SOLE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PETRALE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC FTFSH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. FTFSH	1389.0	220.0	3372.0	2035.3	0.	0.	929.2	84.0	287.9	2706.1	3333.1	0.
ROUND FISH												
LING COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRUE COD	0.	25.0	13.6	0.	0.	0.	0.	0.	0.	0.	0.	0.
BLACK COD	0.	0.	3.4	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLLACK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
COTTIDS	36.0	25.0	135.6	406.8	0.	0.	181.3	24.0	75.3	483.0	259.5	0.
IDIOTS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OC. PERCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRENADIER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC RDFSH	60.3	5.0	0.	56.4	0.	0.	22.7	24.0	26.3	34.6	25.9	0.
TOT. RDFSH	96.3	55.0	152.0	463.2	0.	0.	204.1	48.0	101.7	517.6	285.4	0.
SHELL FISH												
KING CRB	448.0	105.0	2044.0	52.5	0.	0.	0.	12.2	22.0	36.6	780.0	4608.0
TANNER CRB	1208.3	1600.0	203.0	0.	0.	0.	0.	0.	0.	0.	862.7	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SHRIMP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. SHFSH	1656.3	1705.0	2247.0	52.5	0.	0.	0.	12.2	22.0	36.6	1642.7	4608.0
OCPS + SQD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELASMOBRCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. CATCH	3167.1	2012.5	5804.8	2559.4	0.	0.	1135.5	148.3	428.4	3274.3	5275.4	4634.4

HAUL NO. STATION	H 25 6E	H 27 6C	H 28 6B	H 29 7B	H 30 7B	H 31 7C	HAUL NO. STATION	H 32 7D	H 33 7E	H 34 7F	H 35 7G	H 36 7H	H 37 7I
MO DA YR	060667	060667	060667	060676	060767	060767	MO DA YR	060767	060867	060767	060867	060767	060967
W. LONG.	161 15	161 45	161 30	161 15	161 15	161 30	W. LONG.	161 45	162 00	162 15	162 30	162 45	163 00
N. LAT.	57 15	56 45	56 30	56 15	56 15	56 30	N. LAT.	56 45	57 00	57 15	57 30	57 45	58 00
VESEL	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	VESEL	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
DURATION	60	10	60	15	15	60	DURATION	60	60	60	60	60	60
DEPTH MAX.	37	38	30	28	30	44	DEPTH MAX.	43	31	29	27	25	24
NET MESH	3 1/2	3 1/2	3 1/2	3 1/2	1 1/4	3 1/2	NET MESH	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
CATCH							CATCH						
NO. LESS 65	12.0	36.0	22.0	49.0	40.0	22.0	NO. LESS 65	14.0	28.0	9.0	7.0	9.0	12.0
NO. GTR 64	1.0	0.	5.0	0.	0.	0.	NO. GTR 64	0.	2.0	0.	0.	2.0	2.0
WT. LESS 65	12.4	36.4	33.8	25.3	32.1	20.9	WT. LESS 65	10.9	44.8	8.3	13.3	16.9	23.7
WT. GTR 64	7.6	0.	65.2	0.	0.	0.	WT. GTR 64	0.	14.2	0.	15.2	14.5	41.7
TOTAL WT.	20.0	36.4	98.9	25.3	32.1	20.9	TOTAL WT.	10.9	59.0	8.3	28.6	30.5	65.4
SOLE+FLFSH							SOLE+FLFSH						
FLATHEAD	120.6	0.	0.	16.2	8.4	0.	FLATHEAD	98.2	0.	57.1	231.2	16.8	0.
ROCK	24.0	0.	0.	973.1	537.9	0.	ROCK	157.2	0.	118.4	463.5	93.9	84.9
REX	0.	0.	0.	0.3	1.2	0.	REX	0.	0.	0.	0.	0.	0.
BUTTER	0.	0.	0.	0.	0.	0.	BUTTER	0.	0.	0.	0.	0.	0.
YELLOWFIN	604.0	0.	0.	108.0	60.0	0.	YELLOWFIN	295.1	400.0	353.9	463.3	422.5	586.1
ENGLISH	0.	0.	0.	0.	0.	0.	ENGLISH	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	0.	0.	0.	DOVER	0.	0.	0.	0.	0.	0.
TURBOT	0.	0.	0.	0.	0.	0.	TURBOT	0.	0.	0.	0.	0.	0.
STR FLDR	9.0	0.	0.	0.	0.	0.	STR FLDR	39.0	0.	0.	0.	0.	0.
ALA PLAICE	0.	0.	0.	0.	0.	0.	ALA PLAICE	0.	0.	0.	0.	0.	0.
SAND SOLE	17.5	0.	0.	0.	0.	0.	SAND SOLE	68.8	200.0	282.7	346.8	37.5	85.0
PETRALE	0.	0.	0.	0.	0.	0.	PETRALE	0.	0.	0.	0.	0.	0.
MISC FTFSH	0.	0.	0.	54.0	0.	0.	MISC FTFSH	0.	0.	0.	0.	0.	0.
TOT. FTFSH	775.1	0.	0.	1151.6	607.5	0.	TOT. FTFSH	658.4	800.0	819.3	1504.8	570.7	757.1
ROUND FISH							ROUND FISH						
LING COD	0.	0.	0.	0.	0.	0.	LING COD	0.	0.	0.	0.	0.	0.
TRUE COD	0.	0.	0.	4595.4	2546.4	0.	TRUE COD	0.	0.	16.8	578.0	36.8	49.5
BLACK COD	0.	0.	0.	0.	0.	0.	BLACK COD	0.	0.	0.	0.	0.	0.
POLLACK	378.9	0.	0.	0.	0.	0.	POLLACK	590.5	0.	825.5	2317.4	0.	0.
COTTIDS	12.0	0.	0.	648.0	355.2	0.	COTTIDS	0.	200.0	16.8	34.2	28.0	26.2
IDIOTS	0.	0.	0.	0.	0.	0.	IDIOTS	0.	0.	0.	0.	0.	0.
OC. PERCH	0.	0.	0.	0.	0.	0.	OC. PERCH	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	ROCKFISH	0.	0.	0.	0.	0.	0.
GRENADIER	0.	0.	0.	0.	0.	0.	GRENADIER	0.	0.	0.	0.	0.	0.
MISC RDFS	30.1	0.	0.	16.2	0.	0.	MISC RDFS	39.2	0.	0.	0.	0.	0.
TOT. RDFS	419.0	0.	0.	5259.6	2901.6	0.	TOT. RDFS	629.7	200.0	859.1	2946.9	87.3	139.7
SHELL FISH							SHELL FISH						
KING CRB	72.2	708.0	27.0	10.2	0.	1187.5	KING CRB	35.5	137.8	45.0	26.4	8.4	5.3
TANNER CRB	75.0	0.	0.	0.	0.	0.	TANNER CRB	607.2	1000.0	518.7	1042.6	0.	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	DUNGEN CRB	0.	0.	0.	0.	0.	0.
SHRIMP	0.	0.	0.	0.	0.	0.	SHRIMP	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	SCALLOP	0.	0.	0.	0.	0.	0.
TOT. SHFSH	147.2	708.0	27.0	10.2	0.	1187.5	TOT. SHFSH	692.7	1137.8	563.7	1069.0	8.4	5.3
OCPS + SQD	0.	0.	0.	0.	0.	0.	OCPS + SQD	0.	0.	0.	0.	0.	0.
ELASMOBRCH	0.	0.	0.	0.	0.	0.	ELASMOBRCH	0.	0.	0.	0.	0.	0.
TOT. CATCH	1361.3	744.4	125.9	6446.7	3541.2	1208.4	TOT. CATCH	1991.8	2136.8	2250.5	5549.3	696.9	967.5

HAUL NO. STATION	H 38 8E 060967	H 39 9D 061067	H 40 9C 061067	H 41 8B 061067	H 42 9A 061067	H 43 9B 061167	H 44 9C 061167	H 45 9D 061167	H 46 10C 061167	H 47 10B 061267	H 48 10A 061267	H 49 13C 061267
MO DA YR	162 45	162 30	162 15	162 00	162 30	162 45	163 00	163 15	163 45	163 30	163 15	163 15
W. LONG.	56 45	56 30	56 15	56 00	55 30	55 45	56 00	56 15	55 45	55 30	55 16	55 16
N. LAT.	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
VESSEL	60	60	60	60	60	60	60	60	60	60	60	60
DURATION	28	43	42	34	45	45	48	48	52	41	20	20
DEPTH MAX.	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
NET MESH												
CATCH												
HALIBUT	2.0	15.0	20.0	22.0	6.0	22.0	4.0	1.0	1.0	23.0	7.0	0.
NO. LESS 65	1.0	2.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NO. GTR 64	1.3	13.2	15.9	12.4	2.4	11.6	3.8	1.1	1.3	15.1	1.0	0.
WT. LESS 65	21.2	13.2	0.	0.	0.	0.	0.	0.	0.	0.	6.1	0.
WT. GTR 64	22.5	26.4	15.9	12.4	2.4	11.6	3.8	1.1	1.3	15.1	18.5	0.
TOTAL WT.											24.6	0.
SOLF+FLFSH												
FLATHEAD	0.	46.5	0.	67.7	0.	292.3	129.5	99.0	150.0	226.8	0.	0.
ROCK	0.	116.4	0.	292.5	0.	87.7	32.3	37.2	0.	17.1	0.	0.
REX	0.	0.	0.	0.	0.	31.9	0.	0.	0.	17.1	0.	0.
BUTTER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
YELLOWFIN	1050.0	1980.9	0.	487.7	0.	438.5	1051.2	123.9	300.0	680.8	4800.0	0.
ENGLISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TURBOT	0.	92.8	0.	7.0	7.0	11.6	80.0	134.2	300.0	102.0	0.	0.
STR FLDR	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ALA PLAICE	0.	55.2	0.	0.	0.	146.0	28.8	2.4	0.	0.	3.0	0.
SAND SOLF	0.	0.	0.	77.8	0.	0.	0.	0.	0.	452.8	400.0	0.
PETRALE	0.	0.	0.	0.	0.	0.	0.	0.	0.	143.5	5.0	0.
MISC FTFSH	0.	0.	0.	97.2	0.	0.	0.	0.	0.	0.	0.	0.
TOT. FTFSH	1050.0	2291.8	0.	952.2	7.0	1008.0	1321.8	396.7	750.0	141.5	5.0	0.
										1638.1	5208.0	0.
ROUND FISH												
LING COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRUE COD	0.	0.	0.	8.0	0.	262.8	0.	0.	0.	170.0	0.	0.
BLACK COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLLACK	0.	419.1	0.	115.2	0.	350.4	193.6	247.3	600.0	283.3	40.0	0.
COTTIDS	0.	6.9	0.	78.0	0.	81.2	0.	0.	12.0	330.6	80.0	0.
IDIOTS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OC. PERCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRENADIER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC RDFS	0.	46.6	0.	34.1	0.	23.4	27.4	0.	0.	0.	0.	0.
TOT. RDFS	0.	472.7	0.	235.3	0.	717.8	221.0	2.4	1.5	85.0	0.7	0.
										868.9	120.7	0.
SHELL FISH												
KING CRB	356.5	456.0	468.1	63.7	0.	521.3	187.2	187.2	134.0	128.7	0.	0.
TANNER CRB	0.	50.6	0.	0.	0.	1022.3	289.8	248.6	145.8	1701.7	200.0	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SHRIMP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. SHFSH	356.5	506.6	468.1	63.7	0.	1543.6	477.0	435.8	279.8	1830.4	200.0	0.
OCPS + SOD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELASMOBRCH	0.	34.5	0.	0.	0.	0.	0.	0.	10.0	0.	0.	0.
TOT. CATCH	1429.0	3332.0	484.0	1263.5	9.4	3281.0	2023.6	1083.2	1654.7	4352.6	5553.3	0.

HAUL NO. STATION	H 50 12F	H 51 11F	H 52 10D	H 53 9E	H 54 9G	H 56 8H	H 57 8I	H 58 8J	H 59 7K	H 60 8L	H 61 7M	H 62 8N
MO DA YR	061867	061867	061867	061967	061967	062067	062067	062067	062067	062167	062167	062167
W. LONG.	165 00	165 00	164 00	164 00	164 00	163 30	163 45	164 00	163 30	164 30	164 00	165 00
N. LAT.	56 00	56 00	56 30	57 00	57 00	57 30	57 47	58 00	58 30	58 30	59 00	59 00
VESSEL	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
DURATION	60	60	60	60	60	60	30	60	60	60	60	60
DEPTH MAX.	58	53	50	44	39	28	26	25	19	23	17	15
NET MESH	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
CATCH												
HALIBUT												
NO. LFSS	2.0	0.	1.0	0.	0.	0.	0.	4.0	2.0	0.	0.	1.0
NO. GTR	0.	1.0	0.	0.	0.	0.	0.	0.	0.	1.0	0.	0.
WT. LFSS	9.2	0.	4.1	0.	0.	0.	0.	8.1	4.7	0.	0.	0.5
WT. GTR	0.	17.8	0.	9.5	0.	0.	0.	0.	0.	8.0	0.	0.
TOTAL WT.	9.2	17.8	4.1	10.5	0.	0.	0.	8.1	4.7	8.0	0.	0.5
SOLE+FLFSH												
FLATHEAD	95.6	33.2	236.2	97.5	165.7	24.8	0.	0.	6.0	0.	0.	0.
ROCK	0.	4.1	88.7	78.4	52.8	371.3	0.	99.2	6.0	264.4	0.	24.8
REX	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BUTTER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
YELLOWFIN	0.	0.	128.1	156.8	1660.5	2011.6	600.0	891.6	4564.2	2149.8	220.0	332.2
ENGLISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TURBOT	239.0	0.	98.3	156.8	16.5	0.	0.	0.	0.	0.	0.	0.
STR FLDR	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ALA PLAICE	0.	0.	38.0	0.	297.0	463.7	0.	86.1	300.0	99.3	30.0	7.5
SAND SOLE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	22.4
PETRALE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC FTFSH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. FTFSH	334.6	37.3	597.3	489.5	2192.5	2871.4	600.0	1076.9	4876.0	2546.5	250.0	386.9
ROUND FISH												
LING COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRUE COD	190.0	0.	0.	0.	0.	0.	220.0	152.2	6.0	46.2	0.	0.
BLACK COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLLACK	382.7	495.7	275.9	823.8	828.9	247.2	1480.0	0.	0.	0.	0.	0.
COTTIDS	0.	69.7	8.0	0.	39.6	370.0	217.4	126.7	20.0	33.0	0.	0.
IDIOTS	0.	0.	0.	0.	0.	0.	0.	0.	0.	214.5	8.0	48.0
OC. PERCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRENADIER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC RDFS	76.6	0.	0.	0.	0.	0.	5.6	50.9	0.2	66.2	0.	8.2
TOT. RDFS	649.3	565.4	283.9	831.6	868.5	666.8	1923.0	329.9	26.2	359.9	9.0	56.2
SHELL FISH												
KING CRB	0.	38.5	142.6	415.4	5.5	11.7	0.	19.2	0.	8.8	3.5	10.8
TANNER CRB	119.5	41.5	473.6	941.7	653.6	108.0	0.	5.0	0.	0.	0.	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SHRIMP	9.6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. SHFSH	130.9	80.0	616.2	1357.1	669.1	119.7	0.	24.2	0.	8.8	3.5	10.8
OCPS + SQD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELASMOBRCH	9.0	10.8	26.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. CATCH	1132.9	711.3	1577.6	2688.7	3730.2	3657.9	2523.0	1439.1	4902.2	2923.1	261.5	454.4

HAUL NO. STATION	H 63 70	H 64 8P	H 65 7Q	H 66 7S	H 67 9U	H 68 10V	H 69 11V	H 70 10T	H 71 10S	H 72 11S	H 73 10R	H 74 10Q
MO DA YR	062167	062267	062267	062367	062367	062368	092367	062367	062467	062467	062467	062467
W. LONG.	164 30	165 30	165 17	167 30	167 30	168 30	169 15	168 00	167 45	168 30	167 30	167 15
N. LAT.	59 30	59 30	60 00	60 30	60 30	60 30	60 15	60 00	59 45	59 30	59 30	59 15
VESSEL	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
DURATION	60	60	3	60	60	60	60	60	60	60	60	60
DEPTH MAX.	10	10	12	17	17	20	24	18	20	22	19	20
NET MESH	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
CATCH				N TRWL								
HALIBUT												
NO. LESS	65	29.0	20.0	0.	15.0	8.0	5.0	24.0	19.0	4.0	15.0	6.0
NO. GTR	64	1.0	0.	0.	3.0	1.0	0.	1.0	0.	0.	3.0	3.0
WT. LESS	65	59.3	7.0	0.	30.2	17.9	9.2	37.9	41.2	12.3	34.0	12.9
WT. GTR	64	9.9	0.	0.	41.5	17.2	0.	6.0	0.	0.	42.5	77.5
TOTAL WT.		78.2	7.0	0.	71.7	35.1	9.2	43.9	41.2	12.3	76.6	90.4
SOLE+FLFSH												
FLATHEAD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCK	9.0	61.2	0.	0.	0.	0.	0.	42.0	46.8	0.	0.	0.
REX	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BUTTER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
YELLOWFIN	206.4	262.1	0.	0.	164.7	231.7	683.8	374.9	1369.9	550.0	499.1	429.8
ENGLISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TURBOT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
STR FLDR	0.8	0.	0.	0.	1.2	0.	0.	0.	0.	0.	0.	0.
ALA PLAICE	8.1	0.	0.	0.	1.8	19.5	285.0	25.2	117.3	450.0	31.2	129.0
SAND SOLE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PETRALE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC FTFSH	0.	0.	0.	0.	0.	1.5	0.	0.	0.	0.	0.	2.1
TOT. FTFSH	224.3	323.4	0.	0.	167.7	252.7	968.8	442.1	1534.0	1000.0	530.4	560.9
ROUND FISH												
LING COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRUE COD	0.	3.0	0.	0.	4.5	4.5	1026.0	201.6	0.	330.0	51.6	10.5
BLACK COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLLACK	2.8	4.0	0.	0.	0.	0.	0.	8.4	0.	0.	0.	0.
COTTIDS	4.5	30.6	0.	0.	0.4	186.0	570.0	250.0	85.8	110.0	60.0	0.
IDIOTS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OC. PERCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRENAIER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC RDFSH	3.6	9.0	0.	0.	349.5	9.5	11.4	0.	31.3	22.0	3.6	42.9
TOT. RDFSH	10.9	46.6	0.	0.	354.4	200.0	1607.4	460.0	117.1	462.0	115.2	53.4
SHELL FISH												
KING CRB	0.	0.	0.	0.	0.	0.	6.6	0.	5.0	4.4	4.0	18.5
TANNER CRB	0.	0.	0.	0.	0.	0.	25.0	0.	0.	25.0	0.	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SHRIMP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. SHFSH	0.	0.	0.	0.	0.	0.	31.6	0.	5.0	29.4	4.0	18.5
OCPS + SQD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELASMOBRCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. CATCH	313.4	439.2	7.0	0.	593.8	487.8	2616.9	946.0	1697.4	1503.7	726.1	723.2

HAUL NO. STATION	H 88 12B 070167	H 89 12C 070267	H 90 11C 070267	H 91 11B 070267	H 92 6D 070367	H 93 6C 070367	H 94 3D 070467	H 95 3E 070467	H 96 3F 070467	H 97 3G 070467	H 98 4E 070567	H 99 3F 070567
MO DA YR	165 00	165 15	164 30	164 15	164 15	164 15	158 45	159 00	159 30	159 30	160 00	159 30
W. LONG.	55 00	55 15	55 30	55 15	57 00	56 45	57 45	58 00	58 30	58 30	58 00	58 08
N. LAT.	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
VESSEL	60	60	60	30	60	60	60	60	60	60	60	60
DURATION	60	62	55	52	40	38	24	21	14	14	27	20
DEPTH MAX.	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
NET MESH												
CATCH												
HALIBUT	0.	0.	0.	2.0	5.0	8.0	1.0	0.	0.	40.0	77.0	28.0
NO. LESS 65	0.	0.	0.	0.	0.	1.0	3.0	0.	0.	0.	3.0	0.
NO. GTR 64	0.	0.	0.	1.1	10.1	12.0	1.2	0.	0.	83.2	90.0	30.8
WT. LESS 65	0.	0.	0.	0.	0.	6.0	37.1	0.	0.	14.6	58.0	0.
WT. GTR 64	0.	0.	0.	1.1	10.1	18.0	38.3	0.	0.	77.9	148.0	30.8
TOTAL WT.												
SOLE+FLFSH	28.9	39.0	0.	720.8	78.9	70.6	0.	0.	0.	0.	0.	0.
FLATHEAD	101.2	0.	0.	196.2	73.8	163.7	4.5	0.	0.	0.	0.	0.
ROCK	15.3	6.0	0.	46.2	0.	0.	0.	0.	0.	0.	0.	0.
REX	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
BUTTER	117.6	0.	0.	164.2	639.9	81.6	7.0	0.	0.	731.5	654.4	484.0
YELLOWFIN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGLISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TURBOT	185.1	279.4	0.	163.3	98.0	0.	0.	0.	0.	0.	0.	0.
STR FLDR	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ALA PLATCF	0.	0.	0.	0.	0.	0.	9.0	0.	0.	0.	4.2	5.6
SAND SOLE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PETRALE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC FTFSH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. FTFSH	448.1	324.4	0.	1290.7	890.7	315.9	20.6	0.	0.	10.9	11.0	0.
										742.5	1378.4	469.6
ROUND FISH												
LING COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRUE COD	0.	0.	0.	0.	345.3	1265.0	0.	0.	0.	0.	0.	0.
BLACK COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLLACK	169.1	97.5	0.	852.2	492.5	1910.0	0.	0.	0.	0.	0.	0.
COTTIDS	184.6	10.5	0.	244.2	122.5	0.	15.0	0.	0.	48.1	273.3	0.
IDIOTS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OC. PERCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRENADIER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC RDFS	84.7	4.5	0.	0.	35.3	0.	1.2	0.	0.	29.6	0.	1.1
TOT. RDFS	438.3	117.5	0.	1096.4	995.7	3175.0	16.2	0.	0.	77.7	273.3	1.1
SHELL FISH												
KING CRB	284.7	148.2	4657.4	120.0	316.0	112.0	0.	0.	0.	0.	54.0	0.2
TANNER CRB	303.5	170.5	0.	655.0	127.4	148.5	0.	0.	0.	0.	0.	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SHRIMP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. SHFSH	591.0	319.3	4657.4	775.0	443.4	260.5	0.	0.	0.	0.	54.0	0.2
OCPS + SQD	2.8	0.6	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELASMOBRCH	0.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. CATCH	1478.0	756.2	4657.4	3163.2	2339.9	3769.4	75.1	0.	0.	898.0	1853.7	501.8

HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H100 4E 070667 159 45 57 30 HARMNY 60 28 3 1/2	H101 4D 070667 159 30 57 30 HARMNY 60 30 3 1/2	H102 4C 070667 159 15 57 15 HARMNY 60 29 3 1/2	H103 4B 070767 159 07 57 10 HARMNY 60 26 3 1/2	H104 5B 070767 159 50 56 47 HARMNY 60 28 3 1/2	H105 5C 070767 160 00 57 00 HARMNY 60 26 3 1/2	H106 5D 070767 160 15 57 15 HARMNY 60 34 3 1/2	H107 5E 070867 160 30 57 30 HARMNY 60 34 3 1/2	H108 5F 070867 160 45 57 45 HARMNY 60 30 3 1/2	H109 5H 070867 161 24 58 12 HARMNY 60 24 3 1/2	H110 6I 070867 162 15 58 15 HARMNY 60 23 3 1/2	H111 6J 070967 162 15 58 15 HARMNY 60 22 3 1/2
NO. LESS 65 NO. GTR 64 WT. LESS 65 WT. GTR 64 TOTAL WT.	32.0 1.0 43.2 10.4 53.6	26.0 1.0 30.3 17.2 47.5	11.0 2.0 8.0 24.3 32.3	30.0 1.0 20.6 21.9 42.5	67.0 7.0 78.1 118.0 196.1	12.0 1.0 20.9 7.6 28.5	7.0 2.0 9.2 20.7 29.9	2.0 3.7 20.6 3.7	9.0 0.6 20.6 20.6	0.6 1.6 0.6 18.5 18.5	21.0 5.0 32.7 79.4 112.0	5.1 0.6 7.7 0.6 7.7
SOLE+FLFSH FLATHEAD ROCK REX BUTTER YELLOWFIN ENGLISH DOVER TURBOT STR FLDR ALA PLAICE SAND SOLE PETRALE MISC FTFSH TOT. FTFSH	0. 177.7 0. 0. 213.2 0. 0. 0. 0. 10.2 0. 0. 0. 7.1 408.2	60.3 605.5 0. 0. 538.1 0. 0. 0. 0. 0. 0. 0. 40.2 1244.1	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 100.8 0. 0. 27.5 0. 0. 0. 0. 1.6 0. 0. 0. 3.5 135.4	0. 0. 0. 0. 280.0 0. 0. 0. 0. 0. 0. 0. 0. 280.0	0. 345.4 0. 0. 310.5 0. 0. 0. 0. 96.6 0. 0. 0. 20.7 773.2	0. 0. 0. 0. 240.5 0. 0. 0. 0. 0. 0. 0. 17.2 773.1	0. 214.4 0. 0. 0. 0. 0. 0. 0. 301.0 0. 0. 0. 0. 0.	128.3 360.9 0. 0. 1392.9 0. 0. 0. 0. 0. 0. 10.4 1892.6	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 225.0 0. 0. 0. 1000.0 0. 0. 0. 0. 0. 0. 75.0 1300.0	0. 138.9 0. 0. 0. 617.1 0. 0. 0. 0. 0. 0. 0. 756.0
ROUND FISH LING COD TRUE COD BLACK COD POLLACK COTTIDS IDIOTS OC. PERCH ROCKFISH GRENADIER MISC RDFS TOT. RDFS	0. 497.0 0. 852.9 149.1 0. 0. 0. 0. 0. 63.9 1562.9	0. 80.4 0. 670.0 26.8 0. 0. 0. 0. 0. 0. 777.2	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 46.2 0. 0. 74.0 0. 0. 0. 0. 0. 0. 12.6 132.8	0. 960.0 0. 0. 0. 0. 0. 0. 0. 0. 0. 4.0 968.0	0. 690.0 0. 1243.3 0. 0. 0. 0. 0. 0. 0. 13.8 1947.1	0. 0. 0. 1462.0 0. 0. 0. 0. 0. 0. 17.2 1479.2	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 362.2 0. 926.0 258.7 0. 0. 0. 0. 0. 0. 31.0 1478.0	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 450.0	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 277.7
SHELL FISH KING CRB TANNER CRB DUNGEN CRB SHRIMP SCALLOP TOT. SHFSH OCPS + SOD ELASMOBRCH TOT. CATCH	93.0 0. 0. 0. 0. 93.0 0. 0. 0.	77.4 235.4 0. 0. 0. 312.8 0. 0. 0.	30.0 0. 0. 0. 0. 30.0 0. 0. 0.	36.3 9.0 0. 0. 0. 45.3 0. 0. 0.	94.5 480.0 0. 0. 0. 574.5 0. 0. 0.	23.0 621.0 0. 0. 0. 859.0 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0.	204.0 946.0 0. 0. 0. 1150.0 0. 0. 0.	770.0 0. 0. 0. 0. 770.0 0. 0. 0.	113.7 0. 0. 0. 0. 113.7 0. 0. 0.	74.8 0. 0. 0. 0. 74.8 0. 0. 0.	135.8 0. 0. 0. 0. 135.8 0. 0. 0.
	2117.7	2381.5	62.3	356.0	2018.6	3607.8	29.9	3406.0	4161.2	132.2	1936.8	1177.2

HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H112 61 070967 162 15 58 15 HARMNY 90 22 3 1/2	H113 61 070967 162 15 58 15 HARMNY 60 22 3 1/2	H114 61 070967 162 15 58 15 HARMNY 30 21 3 1/2	H115 61 070967 162 15 58 15 HARMNY 120 22 3 1/2	H116 61 070967 162 15 58 15 HARMNY 30 22 3 1/2	H117 61 071067 162 15 58 15 HARMNY 120 22 3 1/2	HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H118 61 071067 162 15 58 15 HARMNY 90 24 3 1/2	H119 6H 071067 162 15 58 00 HARMNY 60 23 3 1/2	H120 6F 071067 161 30 57 30 HARMNY 60 30 3 1/2	H121 7F 071167 161 45 57 15 HARMNY 60 30 3 1/2	H122 7D 071167 161 45 56 45 HARMNY 60 43 3 1/2	H123 7C 071167 161 30 56 30 HARMNY 60 44 3 1/2
NO. LESS 65 NO. GTR 64 WT. LESS 65 WT. GTR 64 TOTAL WT.	19.3 0.7 24.4 11.1 35.5	22.0 0 25.2 0 25.2	14.0 0 8.3 0 8.3	24.5 3.0 41.3 48.0 89.3	24.0 0 25.4 0 25.4	6.0 0 7.3 0 7.3	NO. LESS 65 NO. GTR 64 WT. LESS 65 WT. GTR 64 TOTAL WT.	23.3 4.7 44.8 46.0 90.8	13.0 3.0 17.1 48.1 65.2	0 1.0 0 7.6 7.6	0 1.0 0 0 0.5 0.5	1.0 0 0 0 0.5 0.6	1.0 0 0 0 0.5 0.6
SOLE+FLFSH FLATHEAD ROCK REX BUTTER YELLOWFIN ENGLISH DOVER TURBOT STR FLDR ALA PLAICE SAND SOLE PETRALE MISC FTFSH TOT. FTFSH	0 42.0 0 0 0 1866.7 0 0 0 0 0 0 0 1908.7	0 405.0 0 0 0 1800.0 0 0 0 0 0 0 0 2205.0	0 216.0 0 0 0 960.0 0 0 0 0 0 0 0 1176.0	0 270.0 0 0 0 1200.0 0 0 0 0 0 0 0 1470.0	198.0 198.0 0 0 0 880.0 0 0 0 0 0 0 0 1276.0	0 351.6 0 0 0 1530.0 0 0 0 0 0 0 0 1881.6	SOLE+FLFSH FLATHEAD ROCK REX BUTTER YELLOWFIN ENGLISH DOVER TURBOT STR FLDR ALA PLAICE SAND SOLE PETRALE MISC FTFSH TOT. FTFSH	0 360.0 0 0 0 1350.8 0 0 0 1.9 117.0 0 0 450.0 2279.7	82.0 101.4 0 0 0 1420.7 0 0 0 0 283.5 0 0 40.3 1927.9	54.6 363.6 0 0 636.3 0 0 0 0 363.0 0 0 0 1417.6	52.2 93.6 0 0 0 1354.1 0 0 0 90.3 166.0 0 0 1756.2	57.0 133.6 0 0 0 343.4 0 0 855.0 43.7 0 0 1432.7	66.5 488.9 0 0 0 800.1 0 0 48.4 0 0 0 0 1403.9
ROUND FISH LING COD TRUE COD BLACK COD POLLACK COTTIDS IDIOTS OC. PERCH ROCKFISH GRENADIER MISC RDFSH TOT. RDFSH	0 0 0 0 84.0 0 0 0 0 0 0 84.0	0 0 0 0 810.0 0 0 0 0 0 0 810.0	0 0 0 0 435.6 0 0 0 0 0 0 435.6	0 0 0 0 54.0 0 0 0 0 0 0 54.0	0 0 0 0 396.0 0 0 0 0 0 0 396.0	0 0 0 0 702.0 0 0 0 0 0 0 702.0	ROUND FISH LING COD TRUE COD BLACK COD POLLACK COTTIDS IDIOTS OC. PERCH ROCKFISH GRENADIER MISC RDFSH TOT. RDFSH	0 54.0 0 0 0 63.0 0 0 0 0 9.0 126.0	0 0 0 0 72.9 0 0 0 0 4.1 77.0	0 236.6 0 0 1454.3 0 0 0 0 27.3 1718.2	0 0 0 0 208.7 0 0 0 0 1.7 210.4	0 285.0 0 114.0 0 0 0 0 0 393.0	0 193.6 0 443.7 0 0 0 0 0 637.3
SHELL FISH KING CRB TANNER CRB DUNGEN CRB SHRIMP SCALLOP TOT. SHFSH OCPS + SQD ELASMOBRCH	90.9 0 0 0 0 0 90.9 0 0	105.6 0 0 0 0 0 105.6 0 0	123.2 0 0 0 0 0 123.2 0 0	154.0 0 0 0 0 0 154.0 0 0	299.2 0 0 0 0 0 299.2 0 0	132.0 0 0 0 0 0 132.0 0 0	SHELL FISH KING CRB TANNER CRB DUNGEN CRB SHRIMP SCALLOP TOT. SHFSH OCPS + SQD ELASMOBRCH	111.5 0 0 0 0 0 111.5 0 0	1464.0 0 0 0 0 0 1464.0 0 0	888.0 363.6 0 0 0 1251.6 0 0	118.5 124.5 0 0 0 243.0 0 0	136.8 45.6 0 0 0 182.4 0 0	294.5 356.0 0 0 0 650.5 0 0
TOT. CATCH	2119.1	3145.8	1743.1	1767.3	1996.6	2722.8	TOT. CATCH	2608.2	3534.1	4395.0	2022.0	2692.3	

H124	H125	H126	H127	H128	H129	H130	H131	H132	H133	H134	H135
68	78	88	8C	8D	9D	9C	9B	9A	10A	10B	12V
071267	071267	071267	071267	071367	071367	071367	071367	071467	071467	071467	072067
160 30	161 15	162 00	162 15	162 30	163 15	163 00	162 45	162 30	163 15	163 30	170 00
N. LAT.	56 15	56 00	56 15	56 30	56 15	56 00	55 45	55 30	55 15	55 30	60 00
HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY	HARMNY
DURATION	60	60	60	60	60	60	60	60	60	60	60
DEPTH MAX.	34	38	42	41	48	46	33	26	19	40	32
NET MESH	3	3	3	3	3	3	3	3	3	3	3
CATCH	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
HALIBUT											
NO. LESS 65	38.0	3.0	0.	1.0	0.	0.	0.	31.0	7.0	7.0	0.
NO. GTR 64	12.0	0.	0.	0.	0.	0.	0.	1.0	1.0	0.	0.
WT. LESS 65	33.5	5.5	0.	1.3	0.	0.	0.	26.7	5.4	7.8	0.
WT. GTR 64	8.7	0.	0.	0.	0.	0.	0.	7.3	16.6	0.	0.
TOTAL WT.	271.0	42.2	5.5	1.3	0.	0.	0.	33.9	21.9	7.8	0.
SOLE+FLFISH											
FLATHEAD	10.2	46.0	46.1	90.0	0.	0.	100.1	25.8	17.6	0.	22.8
ROCK	409.2	578.2	245.2	0.	0.	0.	547.6	30.3	0.	0.	0.
REX	13.6	0.	0.	32.0	0.	0.	0.	0.	0.	0.	0.
BUTTER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
YELLOWFIN	579.4	277.4	306.4	90.2	0.	0.	638.8	86.6	1993.6	0.	172.6
ENGLISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DOVER	0.	0.	0.	16.0	0.	0.	0.	0.	0.	0.	0.
TURBOT	0.	0.	337.3	120.0	0.	0.	0.	0.	0.	0.	0.
STR FLDR	0.	41.4	0.	0.	0.	0.	0.	4.3	0.	0.	0.
ALA PLATICE	10.2	29.9	71.3	320.0	0.	0.	0.	0.	155.2	0.	81.2
SAND SOLE	0.	34.8	0.	0.	0.	0.	18.2	60.7	132.9	0.	0.
PETRALE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC FTFSH	0.	46.3	0.	0.	0.	0.	45.4	90.8	132.9	0.	0.
TOT. FTFSH	1022.7	1019.1	1006.3	658.2	0.	0.	1331.9	237.7	2299.2	0.	276.6
ROUND FISH											
LING COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TRUE COD	170.0	0.	0.	340.0	0.	0.	59.8	25.8	0.	0.	23.2
BLACK COD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POLLACK	122.4	0.	183.6	320.0	0.	0.	0.	432.9	0.	0.	1007.7
COTTIDS	408.0	230.4	0.	0.	0.	0.	137.0	34.7	101.2	0.	42.7
IDIOTS	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OC. PERCH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ROCKFISH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRENADIER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MISC RDFS	17.5	30.9	3.1	8.0	169.0	0.	2217.2	12.9	13.2	0.	0.
TOT. RDFS	717.4	471.9	186.7	668.0	169.0	0.	2414.0	506.3	114.4	0.	1073.7
SHELL FISH											
KING CRB	58.9	12.4	155.0	219.0	0.	0.	0.	3.9	0.	64.0	0.
TANNER CRB	37.4	9.2	306.7	320.6	0.	0.	64.4	0.	8.8	0.	0.
DUNGEN CRB	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SHRIMP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SCALLOP	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOT. SHFSH	96.3	21.6	461.7	539.6	0.	0.	64.4	3.9	8.8	64.0	0.
OCPS + SQD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ELASMOBRCH	0.	4.5	0.	0.	0.	0.	0.	0.	0.	0.	27.5
TOT. CATCH	2107.3	1422.6	1654.7	1867.1	169.0	0.	3810.3	781.9	2444.4	71.8	1377.8

HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H136 11W 072167 169 30 60 30 HARMNY 60 26 3 1/2	H137 10X 072167 169 00 61 00 HARMNY 60 21 3 1/2	H138 11Y 072167 170 00 61 00 HARMNY 60 26 3 1/2	H139 10Z 072167 169 30 61 30 HARMNY 60 22 3 1/2	H141 10AB 072167 170 00 62 00 HARMNY 60 24 3 1/2	H143 10AC 072267 169 30 62 30 HARMNY 60 17 3 1/2	HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H144 8AB 072467 168 30 62 30 HARMNY 60 18 3 1/2	H145 7AA 072467 167 30 62 30 HARMNY 60 15 3 1/2	H146 7Y 072467 167 00 62 00 HARMNY 60 16 3 1/2	H147 8Z 072567 168 00 61 30 HARMNY 60 14 3 1/2	H148 8X 072567 167 30 61 30 HARMNY 60 18 3 1/2	H149 9Y 072567 168 30 61 30 HARMNY 60 18 3 1/2	
NO. LESS 65 NO. GTR 64 WT. LESS 65 WT. GTR 64 TOTAL WT.	2.0 0.0 3.6 0.0 3.6	15.0 3.0 36.4 28.7 65.1	0.0 0.0 0.0 0.0 0.0	2.0 0.0 5.5 0.0 5.5	0.0 0.0 0.0 0.0 0.0	1.0 0.0 1.1 0.0 1.1	1.0 0.0 0.9 0.0 0.9	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	26.0 1.0 61.7 7.6 69.3	16.0 0.0 38.8 0.0 38.8	29.0 5.0 75.5 41.5 117.0	28.0 2.0 73.0 18.8 91.8	
SOLE+FLFSH FLATHEAD ROCK REX BUTTER YELLOWFIN ENGLISH DOVER TURBOT STR FLDR ALA PLAICE SAND SOLE PETRALE MISC FTFSH TOT. FTFSH	0.0 0.0 0.0 0.0 384.8 0.0 0.0 0.0 0.0 0.0 685.1 0.0 0.0 0.0 1069.9	0.0 0.0 0.0 0.0 383.0 0.0 0.0 0.0 0.0 0.0 204.0 0.0 0.0 0.0 587.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 0.0 0.0 0.0 12.0 0.0 0.0 0.0 0.0 18.0 0.0 0.0 0.0 34.5	8.4 0.0 0.0 0.0 8.0 0.0 0.0 0.0 0.0 6.0 0.0 0.0 0.0 22.4	0.0 0.0 0.0 0.0 66.6 0.0 0.0 0.0 0.0 32.9 0.0 0.0 2.6 102.1	0.0 0.0 0.0 0.0 52.5 0.0 0.0 0.0 0.0 63.3 0.0 0.0 20.4 136.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 630.0 0.0 0.0 0.0 0.0 12.8 0.0 0.0 6.4 649.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 131.6 0.0 0.0 0.0 0.0 0.0 110.0 0.0 0.0 0.0 243.8	
ROUND FISH LING COD TRUE COD BLACK COD POLLACK COTTIDS IDIOTS OC. PERCH ROCKFISH GRENADIER MISC RDFS TOT. RDFS	0.0 599.7 30.1 0.0 249.4 0.0 0.0 0.0 0.0 0.0 17.4 896.6	0.0 0.0 102.0 0.0 383.6 0.0 0.0 0.0 0.0 0.0 0.0 485.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
SHELL FISH KING CRB TANNER CRB DUNGEN CRB SHRIMP SCALLOP TOT. SHFSH OCPS + SOD ELASMOBRCH TOT. CATCH	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOT. CATCH	1970.1	1137.6	0.0	5.5	80.5	144.3	182.9	800.2	69.3	982.0	117.0	351.0		

HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H150 SW 072667 168 00 61 00 HARMNY 60 16 12 3 1/2	H151 8V 072667 167 00 61 00 HARMNY 60 12 3 1/2	H152 8U 072667 166 45 60 45 HARMNY 60 14 3 1/2	H153 9U 072667 167 30 60 30 HARMNY 60 15 3 1/2	H154 10V 072767 168 30 60 30 HARMNY 60 19 3 1/2	H155 13S 072767 170 00 59 00 HARMNY 35 35 3 1/2	HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H156 14P 072867 170 00 58 00 HARMNY 60 40 3 1/2	H157 12N 072867 168 00 58 00 HARMNY 60 37 3 1/2	H158 13K 072967 168 00 57 00 HARMNY 60 44 3 1/2	H159 14H 072967 168 00 56 00 HARMNY 60 74 3 1/2
NO. LESS 65 NO. GTR 64 WT. LESS 65 WT. GTR 64 TOTAL WT.	19.0 2.0 66.6 18.7 85.3	11.0 0. 32.3 0. 32.3	20.0 3.0 67.6 35.6 103.2	10.0 3.0 29.2 38.7 67.9	16.0 1.0 42.6 10.4 52.9	2.0 0. 3.3 0. 3.3	HAUL NO. STATION MO DA YR W. LONG. N. LAT. VESSEL DURATION DEPTH MAX. NET MESH CATCH	H156 14P 072867 170 00 58 00 HARMNY 60 40 3 1/2	H157 12N 072867 168 00 58 00 HARMNY 60 37 3 1/2	H158 13K 072967 168 00 57 00 HARMNY 60 44 3 1/2	H159 14H 072967 168 00 56 00 HARMNY 60 74 3 1/2
SOLE+FLFSH FLATHEAD ROCK REX BUTTER YELLOWFIN ENGLISH DOVER TURBOT STR FLDR ALA PLAICE SAND SOLE PETRALE MISC FTFSH TOT. FTFSH	0. 0. 0. 0. 105.0 0. 0. 0. 0. 0. 11.7 0. 0. 0. 116.7	0. 0. 0. 0. 112.5 0. 0. 0. 0. 0. 15.0 0. 0. 5.6 133.1	0. 0. 0. 0. 248.1 0. 0. 0. 0. 2.4 3.9 0. 0. 1.0 255.4	0. 0. 0. 0. 214.1 0. 0. 0. 0. 0. 0. 0. 0. 0. 214.1	0. 0. 0. 0. 127.0 0. 0. 0. 0. 0. 0. 0. 0. 0. 127.0	46.8 0. 0. 0. 0. 361.3 0. 0. 0. 86.4 0. 198.0 0. 0. 0. 692.5	SOLE+FLFSH FLATHEAD ROCK REX BUTTER YELLOWFIN ENGLISH DOVER TURBOT STR FLDR ALA PLAICE SAND SOLE PETRALE MISC FTFSH TOT. FTFSH	H156 14P 072867 170 00 58 00 HARMNY 60 40 3 1/2	H157 12N 072867 168 00 58 00 HARMNY 60 37 3 1/2	H158 13K 072967 168 00 57 00 HARMNY 60 44 3 1/2	H159 14H 072967 168 00 56 00 HARMNY 60 74 3 1/2
ROUND FISH LING COD TRUE COD BLACK COD POLLACK COTTIDS IDIOTS OC. PERCH ROCKFISH GRENADIER MISC RDFS TOT. RDFS	0. 48.0 12.0 0. 12.0 0. 0. 0. 0. 0. 0. 0. 72.0	0. 0. 3.6 0. 5.0 0. 0. 0. 0. 0. 0. 0. 8.6	0. 0. 0. 0. 0. 0. 0. 0. 0. 8.0 8.0 0. 0.	0. 0. 116.6 0. 91.8 0. 0. 0. 0. 0. 40.0 248.4	0. 0. 3.4 0. 0. 0. 0. 0. 0. 1.1 4.5	0. 108.0 0. 722.9 10.8 0. 0. 0. 0. 0. 6.0 847.7	ROUND FISH LING COD TRUE COD BLACK COD POLLACK COTTIDS IDIOTS OC. PERCH ROCKFISH GRENADIER MISC RDFS TOT. RDFS	H156 14P 072867 170 00 58 00 HARMNY 60 40 3 1/2	H157 12N 072867 168 00 58 00 HARMNY 60 37 3 1/2	H158 13K 072967 168 00 57 00 HARMNY 60 44 3 1/2	H159 14H 072967 168 00 56 00 HARMNY 60 74 3 1/2
SHELL FISH KING CRB TANNER CRB DUNGEN CRB SHRIMP SCALLOP TOT. SHFSH OCPS + SOD ELASMOBRCH TOT. CATCH	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 14.4 0. 0. 0. 0. 14.4	SHELL FISH KING CRB TANNER CRB DUNGEN CRB SHRIMP SCALLOP TOT. SHFSH OCPS + SOD ELASMOBRCH TOT. CATCH	H156 14P 072867 170 00 58 00 HARMNY 60 40 3 1/2	H157 12N 072867 168 00 58 00 HARMNY 60 37 3 1/2	H158 13K 072967 168 00 57 00 HARMNY 60 44 3 1/2	H159 14H 072967 168 00 56 00 HARMNY 60 74 3 1/2



